



STIC Search Report

EIC 2100

STIC Database Tracking Number: 157398

TO: Dung Dinh
Location: RND 4A39
Art Unit: 2152
Friday, July 15, 2005

Case Serial Number: 09/702737

From: Ruth E. Spink
Location: EIC 2100
RND-4B31
Phone: 23524

Ruth.spink@uspto.gov

Search Notes

Dung – Attached is the NPL search for the above referenced case. Be sure to let me know if you need any further help with this search.

Ruth

| Set | Items | Description |
|---|-------|---|
| S1 | 75 | AU='LUDWIG L' OR AU='LUDWIG L F' OR AU='LUDWIG LESTER' OR - AU='LUDWIG LESTER C O COLLABORATION PROPERTIES INC' OR AU='LU- DWIG LESTER F' |
| S2 | 3 | AU='LUDWIG LESTER FRANK' OR AU='LUDWIG LESTER FRANK JR' |
| S3 | 11 | AU='LAUWERS C' OR AU='LAUWERS C J' OR AU='LAUWERS CHRIS' OR AU='LAUWERS CHRIS J' |
| S4 | 25 | AU='LANTZ K' OR AU='LANTZ K A' OR AU='LANTZ KEITH A' |
| S5 | 22 | AU='BURNETT G' OR AU='BURNETT G J' |
| S6 | 16 | AU='BURNETT GERALD' OR AU='BURNETT GERALD J' |
| S7 | 26 | AU='BURNS E' OR AU='BURNS E R' |
| S8 | 7 | AU='BURNS EMMET' OR AU='BURNS EMMET R' OR AU='BURNS EMMETT' |
| S9 | 7 | AU='BURNS EMMETT R' OR AU='BURNS EMMETT R P O BOX 10279' |
| S10 | 124 | S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 |
| S11 | 9 | S10 AND IC=G06F |
| S12 | 9 | IDPAT (sorted in duplicate/non-duplicate order) |
| S13 | 5 | IDPAT (primary/non-duplicate records only) |
| S14 | 11 | AU='LAUWERS J' OR AU='LAUWERS J C' OR AU='LAUWERS J CHRIS' |
| S15 | 2 | S14 AND IC=G06F |
| S16 | 0 | S15 NOT S13 |
| S17 | 5 | S10 AND MC=(T01-H07C OR T01-J10C OR W02-F08A1) |
| S18 | 4 | S17 NOT S13 |
| S19 | 4 | IDPAT (sorted in duplicate/non-duplicate order) |
| S20 | 4 | IDPAT (primary/non-duplicate records only) |
| File 347:JAPIO Nov 1976-2005/Feb(Updated 050606) | | |
| (c) 2005 JPO & JAPIO | | |
| File 350:Derwent WPIX 1963-2005/UD,UM &UP=200540 | | |
| (c) 2005 Thomson Derwent | | |
| File 349:PCT FULLTEXT 1979-2005/UB=20050623,UT=20050616 | | |
| (c) 2005 WIPO/Univentio | | |
| File 348:EUROPEAN PATENTS 1978-2005/Jun W03 | | |
| (c) 2005 European Patent Office | | |

13/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013933192 **Image available**
WPI Acc No: 2001-417406/200144
XRPX Acc No: N01-309302

Multimedia collaboration reporting system in multimedia network, has reporting module to generate report with respect to query parameter information received from user

Patent Assignee: COLLABORATION PROPERTIES INC (COLL-N)
Inventor: **BURNETT G** ; CALABY L; HORSCHMAN E; HUGHES J; INN Y; LAUWERS J C;
LUDWIG L ; VANDERLIPPE R; WALLIN B

Number of Countries: 093 Number of Patents: 003

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|--------------|------|----------|----------------|------|----------|----------|
| WO 200077687 | A1 | 20001221 | WO 2000US15990 | A | 20000609 | 200144 B |
| AU 200057320 | A | 20010102 | AU 200057320 | A | 20000609 | 200144 |
| EP 1208473 | A1 | 20020529 | EP 2000942737 | A | 20000609 | 200243 |
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Priority Applications (No Type Date): US 99138921 P 19990611

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200077687 A1 E 107 G06F-017/30

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH
CN CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG
KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD
SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200057320 A G06F-017/30 Based on patent WO 200077687

EP 1208473 A1 E G06F-017/30 Based on patent WO 200077687

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): WO 200077687 A1

NOVELTY - A database module (205) records an internal network system events, an external network system events and service events that are monitored with a monitoring module. The stored monitored events are classified with respect to the predetermined characteristics and attributes. Reporting modules (207) generate a report based on the query parameter information received from user.

USE - In multimedia network for e.g. event and sports reporting system.

ADVANTAGE - Provides a wide range of information on usage, operations, costs and failure in wide variety of report format.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of multimedia network.

Data base module (205)

Reporting module (207)

pp; 107 DwgNo 4/25

Title Terms: REPORT; SYSTEM; NETWORK; REPORT; MODULE; GENERATE; REPORT;

RESPECT; QUERY; PARAMETER; INFORMATION; RECEIVE; USER

Derwent Class: T01; W01

International Patent Class (Main): **G06F-017/30**

File Segment: EPI

13/5/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012520932 **Image available**
WPI Acc No: 1999-327038/199927
XRPX Acc No: N99-245301

Scalable networked multimedia system for audio-video processing

Patent Assignee: COLLABORATION PROPERTIES INC (COLL-N)
Inventor: APPLEBAUM D; BROWN W B; **BURNETT G** ; **LAUWERS C** ; **LUDWIG L** ; LUI
R; VANDERLIPPE R W; VUONG A T; YUL I J
Number of Countries: 084 Number of Patents: 004
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|---------------|------|----------|----------|
| WO 9923560 | A1 | 19990514 | WO 98US23596 | A | 19981104 | 199927 B |
| AU 9914515 | A | 19990524 | AU 9914515 | A | 19981104 | 199940 |
| EP 1029273 | A1 | 20000823 | EP 98958473 | A | 19981104 | 200041 |
| | | | WO 98US23596 | A | 19981104 | |
| US 6816904 | B1 | 20041109 | US 9764266 | P | 19971104 | 200474 |
| | | | WO 98US23596 | A | 19981104 | |
| | | | US 2000565192 | A | 20000504 | |

Priority Applications (No Type Date): US 9764266 P 19971104; US 2000565192
A 20000504

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|--|------|--------|-------------|--|
| WO 9923560 | A1 | E 204 | G06F-009/46 | |
| Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW | | | | |
| Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW | | | | |
| AU 9914515 | A | | H04L-012/56 | Based on patent WO 9923560 |
| EP 1029273 | A1 | E | G06F-009/46 | Based on patent WO 9923560 |
| Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE | | | | |
| US 6816904 | B1 | | G06F-017/30 | Provisional application US 9764266 Cont of application WO 98US23596 |

Abstract (Basic): WO 9923560 A1

NOVELTY - A signal path interconnects several workstations (12) and a storage server (100). Each workstation (40) includes video and audio reproduction capabilities, and video and audio capture capabilities. The storage servers (100) comprise a set of storage cells (120) which include one or more encoding (132) and transcoding converters for transforming audio and video signals from a workstation into a form suitable for storage, and which operate under the direction of a storage cell manager (160).

DETAILED DESCRIPTION - A number of networks and at least one storage server (100) form the networked multimedia system (10). A signal path interconnects the workstations (12) and the storage server (100). Each workstation (40) includes video and audio reproduction capabilities, as well as video and audio capture capabilities. Any given storage server (100) comprises a set of storage cells (120) that operate under the direction of a storage cell manager (160). A storage cell (120) includes one or more encoding (132) and transcoding converters for converting or transforming audio and video signals originating at a workstation into a form suitable for storage. The storage cell controller responds to signals received from the workstations (40), and oversees the operation of the storage cells to facilitate the storage of converted audio and video signals in at least one file that can be simultaneously accessed by one or more application programs executing on one or more workstations. **INDEPENDENT CLAIMS** are included for; a method of using a networked multimedia system.

USE - Scalable audio-video server system and Application Program Interface with range of associated software applications to provide networked multimedia processing.

ADVANTAGE - Uses resource sharing and full range of networked signal distribution technology.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of a Collaborative Multimedia Computing system incorporating an Audio/Video Server System of the invention.

Networked multimedia system (10)

Workstations (12)

Analogue links (14)

User workstations (40)

A/V conference rooms (45)

Audio/Video Server System (100)

Storage cells (120)

Decoding converters (134)

pp; 204 DwgNo 3/46

Title Terms: SYSTEM; AUDIO; VIDEO; PROCESS

Derwent Class: T01; W01

International Patent Class (Main): G06F-009/46 ; G06F-017/30 ;

H04L-012/56

International Patent Class (Additional): G06F-015/173 ; H04L-012/28;

H04L-012/40

File Segment: EPI

13/5/4 (Item 4 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
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010224105 **Image available**

WPI Acc No: 1995-125360/199517

Related WPI Acc No: 1998-233284; 1998-233285; 1998-233286; 1998-233287

XPX Acc No: N95-099199

Teleconference system separating real-time and async. networks - couples distributed video mosaic generator to AV path for combining portion of mosaic image with captured image of third of participants

Patent Assignee: VICOR INC (VICO-N); COLLABORATION PROPERTIES INC (COLL-N);
 BURNETT G J (BURN-I); BURNS E R (BURN-I); LANTZ K A (LANT-I); LAUWERS J C (LAUW-I); LUDWIG L F (LUDW-I)

Inventor: **BURNETT G J ; BURNS E R ; LANTZ K A ; LAUWERS J C ; LUDWIG L F ; LAUWERS C J ; BURNS E ; BUTNETT G J ; LAUWERS C**

Number of Countries: 058 Number of Patents: 080

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
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| WO 9510157 | A1 | 19950413 | WO 94US2961 | A | 19940316 | 199520 |
| WO 9510158 | A2 | 19950413 | WO 94US11193 | A | 19941003 | 199520 |
| AU 9471988 | A | 19950501 | AU 9471988 | A | 19940316 | 199532 |
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| | | | EP 98120172 | A | 19941003 | |
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| US 20020124051 | A1 | 20020905 | US 93131523 | A | 19931001 | 200260 |
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| | | | EP 98120174 | A | 19940316 | |
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| | | | EP 98120174 | A | 19940316 | |
| DE 69431525 | E | 20021114 | DE 94631525 | A | 19940316 | 200282 |
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Priority Applications (No Type Date): US 93131523 A 19931001; US 96660460 A 19960607; US 96660805 A 19960607; US 96660461 A 19960607; US 96660880 A 19960610; US 96650123 A 19960607; US 96660418 A 19960607; US 96659952 A 19960607; US 96661530 A 19960611; US 96659949 A 19960607; US 9872542 A 19980505; US 97994848 A 19971219; US 2000702737 A 20001101; US 2001879460 A 20010611; US 97847828 A 19970428; US 96664238 A 19960607; US 9872626 A 19980505; US 9872622 A 19980505; US 2002120307 A 20020409; US 97833511 A 19970407; US 2003382553 A 20030304; US 2003382554 A 20030304; US 2002120559 A 20020409; US 2003721343 A 20031126; US 2003721385 A 20031126; US 2003721905 A 20031126; US 2003722051 A 20031126; US 9872549 A 19980505

Cited Patents: 4.Jnl.Ref; DE 3507152; EP 354370; EP 497022; EP 190060; EP 523626; EP 561381

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|----|----------|--------------|
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| GB 2282506 | A | 112 | H04N-007/15 | | |
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Designated States (National): AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB HU JP KP KR KZ LK LU LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US UZ VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE

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Designated States (National): AM AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP KE KG KP KR KZ LK LT LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA US UZ VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ

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| EP 721725 | A1 E | 112 | H04N-007/15 | Based on patent WO 9510157 |
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Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

EP 721726 A1 E 112 H04N-007/15 Based on patent WO 9510158
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
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GB 2282506 B H04N-007/15
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Div ex patent US 5689641
US 5802294 A G06F-013/00 Cont of application US 93131523
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Div ex patent US 5689641
EP 898424 A2 E H04N-007/15 Div ex application EP 94921163
Div ex patent EP 721725

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE

US 5867654 A G06F-015/16 Div ex application US 93131523
Div ex patent US 5689641
EP 899952 A2 E H04N-007/15 Div ex application EP 94930561
Div ex patent EP 721726

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE

EP 899953 A2 E H04N-007/15 Div ex application EP 94930561
Div ex patent EP 721726

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE

EP 899954 A2 E H04N-007/15 Div ex application EP 94930561
Div ex patent EP 721726

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE

US 5884039 A G06F-015/16 Div ex application US 93131523
Div ex patent US 5689641
EP 912055 A2 E H04N-007/15 Div ex application EP 94930561
Div ex patent EP 721726

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE

EP 912056 A2 E H04N-007/15 Div ex application EP 94930561
Div ex patent EP 721726

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE

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Div ex patent US 5689641
US 5915091 A G06F-015/16 Cont of application US 93131523
Cont of patent US 5689641
EP 955765 A1 E H04M-003/56 Div ex application EP 94921163
Div ex patent EP 721725

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
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Div ex patent US 5689641
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CA 2296182 C E H04N-007/15 Div ex application CA 2173209
EP 721726 B1 E H04N-007/15 Related to application EP 98120170
Related to application EP 98120171
Related to application EP 98120172
Related to application EP 98120175

Related to patent EP 899952
 Related to patent EP 899953
 Related to patent EP 899954
 Related to patent EP 912056
 Based on patent WO 9510158

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
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| | | | Cont of application US 96660805 |
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| | | | Cont of patent US 5758079 |
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| CA 2296187 | C E | H04N-007/15 | Div ex application CA 2173209 |
| CA 2296189 | C E | H04N-007/15 | Div ex application CA 2173209 |
| EP 898424 | B1 E | H04N-007/15 | Div ex application EP 94921163 |
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Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
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| | | | Div ex application US 97994848 |
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| | | | Cont of patent US 5689641 |
| | | | Cont of patent US 5802294 |
| | | | Div ex patent US 6237025 |
| DE 69428725 | E | H04N-007/15 | Based on patent EP 898424 |
| US 6343314 | B1 | G06F-015/00 | Cont of application US 93131523 |
| | | | Cont of application US 96659952 |
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| EP 912056 | B1 E | H04N-007/15 | Div ex application EP 94930561 |
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Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
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| US 6426769 | B1 | H04N-007/14 | Cont of application US 93131523 |
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| | | | Related to application EP 98120174 |
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| DE 69431525 | E | H04N-007/15 | Based on patent EP 721725 |
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| Designated States (Regional): AT | | | BE CH DE DK ES FR GB GR IE IT LI LT LU |
| MC NL PT SE | | | |
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| NL PT SE | | | |
| US 6594688 | B2 | G06F-013/00 | Cont of application US 93131523 |
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| Designated States (Regional): AT | | | BE CH DE DK ES FR GB GR IE IT LI LU MC |
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| US 20030158901 | A1 | G06F-015/16 | Cont of application US 93131523 |
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| | | | Div ex application US 2001879460 |
| | | | Cont of patent US 5689641 |
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| | | | Div ex patent US 6237025 |
| US 6898620 B1 | G06F-015/173 | | Cont of application US 96660805 |
| | | | Cont of patent US 5758079 |

Abstract (Basic): GB 2282506 A

The real-time network is used for audio and video. The async. network is used for control signals and textual, graphical and other data. An AV path (13) carries signals among the work-stations. A video mosaic generator combines images.

Geographically dispersed LANs (10) interconnected by a WAN (15) can reduce demands made on the latter by employing multi-hopping, including avoidance of unnecessary decompression of data at intermediate hops, as well as video mosaicing and cut-and-paste facilities.

USE/ADVANTAGE - Closely approximates experience of face-to-face collaboration. System architecture readily scalable to largest enterprise network environments. Accommodates differing levels of collaborative capabilities available to individual users and permits high quality audio and video capabilities to be readily super imposed onto existing personal computers and work-stations.

Dwg.1/42

Title Terms: TELECONFERENCE; SYSTEM; SEPARATE; REAL-TIME; ASYNCHRONOUS; NETWORK; COUPLE; DISTRIBUTE; VIDEO; MOSAIC; GENERATOR; AV; PATH;

COMBINATION; PORTION; MOSAIC; IMAGE; CAPTURE; IMAGE; THIRD; PARTICIPATING
Derwent Class: T01; W02
International Patent Class (Main): **G06F-013/00** ; **G06F-013/14** ;
G06F-015/00 ; **G06F-015/16** ; **G06F-015/173** ; H04L-012/28; H04M-003/56;
H04N-007/14; H04N-007/15
International Patent Class (Additional): **G06F-017/30** ; H04L-012/00;
H04L-012/18; H04L-012/46; H04M-003/42; H04M-003/50; H04Q-005/02
File Segment: EPI

20/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

017057328 **Image available**
WPI Acc No: 2005-381653/200539
Related WPI Acc No: 2005-330818
XRPX Acc No: N05-309006

Data communication system e.g. audio IP phone, for use in network environment, has video bridge to delay all video streams, where mixed outputs from audio bridge and video bridge are communicated back to each end point

Patent Assignee: CISCO TECHNOLOGY INC (CISC-N)
Inventor: FIRESTONE S S; FRIEDRICH W R; ISMAIL N M; **LANTZ K A** ; SARKAR S;
SURAZSKI L K; WU D

Number of Countries: 108 Number of Patents: 002

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|----------------|------|----------|----------------|------|----------|----------|
| US 20050078171 | A1 | 20050414 | US 2003680918 | A | 20031008 | 200539 B |
| | | | US 2003703859 | A | 20031106 | |
| WO 200536878 | A1 | 20050421 | WO 2004US32977 | A | 20041006 | 200539 |

Priority Applications (No Type Date): US 2003680918 A 20031008; US
2003703859 A 20031106

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|----------------|------|-----|----|-------------|-----------------------------------|
| US 20050078171 | A1 | | 19 | H04N-007/14 | Cont of application US 2003680918 |
| WO 200536878 | A1 | E | | H04N-007/14 | |

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ
CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ
NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ
UA UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR
GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL
SZ TR TZ UG ZM ZW

Abstract (Basic): US 20050078171 A1

NOVELTY - The system (10) has a video bridge to delay all of video streams such that an input-to-output matching of each individual video stream is matched to mapping of a corresponding audio stream. A mixed output video stream is created by mixing the delayed video streams such that mixed outputs from an audio bridge and the video bridge is communicated back to each of end points (12) such that the video conference is facilitated.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(A) a method for performing distributed video conferencing

(B) software for performing distributed video conferencing.

USE - Used for communicating data in a network environment.

ADVANTAGE - The system provides for more appropriate data-routing procedure to achieve optimal data management in a video conferencing environment. The end points choose to lock-on to a particular participant of the conference at any appropriate time. The system allows for more economical video conferencing configurations and provides audio/video synchronization of videoconferences when the audio bridge and the video bridge are not necessarily co-located on the same given network device.

DESCRIPTION OF DRAWING(S) - The drawing shows a simplified block diagram of a communication system for performing distributed video conferencing.

Communication system (10)

End points (12)

Gateways (20)

20/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011816377 **Image available**

WPI Acc No: 1998-233287/199821

Related WPI Acc No: 1995-125360; 1998-233284; 1998-233285; 1998-233286

XPX Acc No: N98-184881

Teleconferencing system with multi-media mail facility - has AV path for carrying signals among workstations, video mosaic generator for combining images and audio summer or mixer

Patent Assignee: VICOR INC (VICO-N)

Inventor: BURNETT G J ; BURNS E R ; LANTZ K A ; LAUWERS J C ; LUDWIG L F

Number of Countries: 001 Number of Patents: 002

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| GB 2319138 | A | 19980513 | GB 9410665 | A | 19940527 | 199821 B |
| | | | GB 982092 | A | 19980130 | |
| GB 2319138 | B | 19980624 | GB 9410665 | A | 19940527 | 199827 |
| | | | GB 982092 | A | 19980130 | |

Priority Applications (No Type Date): US 93131523 A 19931001

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|------------|------|--------|-------------|-------------------------------------|
| GB 2319138 | A | 100 | H04L-012/18 | Derived from application GB 9410665 |
| GB 2319138 | B | | H04L-012/18 | Derived from application GB 9410665 |

Abstract (Basic): GB 2319138 A

The system has several workstations that each have two monitors and are in communication with audio and video (AV) capture capabilities. A data path is provided in communication with the workstations over which the data can be shared among the several participants.

An AV path is provided in communication with the workstations, along which AV signals, representing video images and spoken word of participants, can be carried. The system is configured to reproduce images based on data signals shared along the data path, on at least two monitors and to reproduce participant video images, based on AV signals carried along second path, on at least two monitors.

USE - Closely approximates experience of face-to-face collaboration. Can store and forward multimedia mail messages.

ADVANTAGE - System architecture readily scalable to largest enterprise network environments. Accommodates differing levels of collaborative capabilities available to individual users and permits high quality audio and video capabilities to be readily super imposed onto existing personal computers and work-stations.

Dwg.29/42

Title Terms: TELECONFERENCE; SYSTEM; MULTI; MEDIUM; MAIL; FACILITY; AV; PATH; CARRY; SIGNAL; VIDEO; MOSAIC; GENERATOR; COMBINATION; IMAGE; AUDIO; SUMMER; MIX

Derwent Class: T01; W01; W02

International Patent Class (Main): H04L-012/18

International Patent Class (Additional): H04M-003/56; H04N-007/15

File Segment: EPI

20/5/3 (Item 3 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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011816374 **Image available**

WPI Acc No: 1998-233284/199821

Related WPI Acc No: 1995-125360; 1998-233285; 1998-233286; 1998-233287

XRFX Acc No: N98-184878

**Teleconferencing system for use with personal computer - initiates
collaboration with selected participant after selecting type of
collaboration required**

Patent Assignee: VICOR INC (VICO-N)

Inventor: BURNETT G J ; BURNS E R ; LANTZ K A ; LAUWERS J C ; LUDWIG L F

Number of Countries: 001 Number of Patents: 002

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| GB 2319135 | A | 19980513 | GB 9410665 | A | 19940527 | 199821 B |
| | | | GB 982081 | A | 19980130 | |
| GB 2319135 | B | 19980624 | GB 9410665 | A | 19940527 | 199827 |
| | | | GB 982081 | A | 19980130 | |

Priority Applications (No Type Date): US 93131523 A 19931001

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|------------|------|-----|-------------|-------------------------------------|--------------|
| GB 2319135 | A | 99 | H04M-003/56 | Derived from application GB 9410665 | |
| GB 2319135 | B | | H04M-003/56 | Derived from application GB 9410665 | |

Abstract (Basic): GB 2319135 A

The system has several workstations (12) each having monitors for displaying visual images and associated AV capture and reproduction capabilities for capturing and reproducing video images and spoken audio of participants. A common collaboration initiator initiates several types of collaboration among the participants.

The collaboration types are selected from the set consisting of data conferencing, video-conferencing, telephone conferencing, sending of faxes and sending of multimedia mail messages. The initiator consists of a callee selector for selecting one or more desired participants from several potential participants, as well as the collaboration type selector.

USE - Closely approximates experience of face-to-face collaboration, with inclusion of visualising gestures as well as spoken word.

ADVANTAGE - System architecture readily scalable to largest enterprise network environments. Accommodates differing levels of collaborative capabilities available to individual users and permits high quality audio and video capabilities to be readily super imposed onto existing personal computers and work-stations.

Dwg.36/42

Title Terms: TELECONFERENCE; SYSTEM; PERSON; COMPUTER; INITIATE; SELECT; PARTICIPATING; AFTER; SELECT; TYPE; REQUIRE

Derwent Class: T01; W01; W02

International Patent Class (Main): H04M-003/56

International Patent Class (Additional): H04L-012/18; H04N-007/15

File Segment: EPI

20/5/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

010792660 **Image available**
WPI Acc No: 1996-289613/199630
Related WPI Acc No: 1997-300956
XRPX Acc No: N96-243082

Multimedia telecommunications system - has central office with digital switch complex coupled to public digital telephone network, and at least one twisted pair transceiver coupled to twisted pair link in telephone loop

Patent Assignee: VISIONARY CORP TECHNOLOGIES INC (VISI-N); VCT INC (VCTV-N)
; COLLABORATION PROPERTIES INC (COLL-N); VISIONARY CORP TECHNOLOGIES (VISI-N)

Inventor: **LUDWIG L F**

Number of Countries: 066 Number of Patents: 011

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|--------------|------|----------|----------|
| GB 2296620 | A | 19960703 | GB 9520848 | A | 19951011 | 199630 B |
| WO 9621986 | A2 | 19960718 | WO 95US13016 | A | 19951004 | 199634 |
| AU 9539534 | A | 19960731 | AU 9539534 | A | 19951004 | 199645 |
| GB 2296620 | B | 19970528 | GB 9520848 | A | 19951011 | 199724 |
| EP 801858 | A1 | 19971022 | EP 95937413 | A | 19951004 | 199747 |
| | | | WO 95US13016 | A | 19951004 | |
| US 5751338 | A | 19980512 | US 94367976 | A | 19941230 | 199826 |
| US 6081291 | A | 20000627 | US 94367976 | A | 19941230 | 200036 |
| | | | US 97842745 | A | 19970416 | |
| CA 2208987 | C | 20000829 | CA 2208987 | A | 19951004 | 200051 |
| | | | WO 95US13016 | A | 19951004 | |
| EP 801858 | B1 | 20031210 | EP 95937413 | A | 19951004 | 200405 |
| | | | WO 95US13016 | A | 19951004 | |
| | | | EP 200323333 | A | 19951004 | |
| EP 1381236 | A2 | 20040114 | EP 95937413 | A | 19951004 | 200410 |
| | | | EP 200323333 | A | 19951004 | |
| DE 69532299 | E | 20040122 | DE 632299 | A | 19951004 | 200415 |
| | | | EP 95937413 | A | 19951004 | |
| | | | WO 95US13016 | A | 19951004 | |

Priority Applications (No Type Date): US 94367976 A 19941230; US 97842745 A 19970416

Cited Patents: No-Citns.

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|-----------|------|--------|----------|--------------|
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| GB 2296620 | A | 140 | H04Q-011/04 | |
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|------------|------|-----|-------------|--|
| WO 9621986 | A2 E | 135 | H04L-012/64 | |
|------------|------|-----|-------------|--|

Designated States (National): AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG US UZ VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ UG

| | | | | |
|------------|---|--|-------------|----------------------------|
| AU 9539534 | A | | H04L-012/64 | Based on patent WO 9621986 |
|------------|---|--|-------------|----------------------------|

| | | | | |
|------------|---|--|-------------|--|
| GB 2296620 | B | | H04Q-011/04 | |
|------------|---|--|-------------|--|

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|-----------|------|--|-------------|----------------------------|
| EP 801858 | A1 E | | H04L-012/64 | Based on patent WO 9621986 |
|-----------|------|--|-------------|----------------------------|

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

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|------------|---|--|-------------|--|
| US 5751338 | A | | H04N-007/10 | |
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|------------|---|--|-------------|---------------------------------|
| US 6081291 | A | | H04M-007/14 | Cont of application US 94367976 |
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|------------|-----|--|-------------|----------------------------|
| CA 2208987 | C E | | H04M-011/08 | Based on patent WO 9621986 |
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|-----------|------|--|-------------|-------------------------------------|
| EP 801858 | B1 E | | H04L-012/64 | Related to application EP 200323333 |
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Based on patent WO 9621986

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

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|------------|------|--|-------------|--------------------------------|
| EP 1381236 | A2 E | | H04N-007/10 | Div ex application EP 95937413 |
|------------|------|--|-------------|--------------------------------|

Div ex patent EP 801858
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE
DE 69532299 E H04L-012/64 Based on patent EP 801858
Based on patent WO 9621986

Abstract (Basic): GB 2296620 A

The multimedia telecommunication system provides services to a number of multimedia workstations. The system includes a multimedia central office which includes a digital switch complex coupled to a public digital telephone network, and at least one twisted pair transceiver coupled to a twisted pair link in a telephone loop. A switch complex is used to control the connections between the digital switch complex and the twisted pair transceiver.

In this way, audio, video and digital data signals can be sent from a multimedia workstation coupled to the digital telephone network to a workstation coupled to a twisted pair link and vice versa. Pref. the system can provide application sharing, window sharing and/or multimedia messaging between at least two workstations. The multimedia central office can be networked to a second central office via a common carrier digital transmission link coupled to the digital switch complex.

ADVANTAGE - Provides immediate low cost, wide area access to multimedia services using twisted pair links in existing telephone loop. Allows users to take advantage of discount rates for high volume usage on common digital carriers.

Dwg. 2/26

Title Terms: TELECOMMUNICATION; SYSTEM; CENTRAL; OFFICE; DIGITAL; SWITCH; COMPLEX; COUPLE; PUBLIC; DIGITAL; TELEPHONE; NETWORK; ONE; TWIST; PAIR; TRANSCEIVER; COUPLE; TWIST; PAIR; LINK; TELEPHONE; LOOP

Index Terms/Additional Words: TELEPHONE; VIDEO; TV; TELEVISION; TELECONFERENCING

Derwent Class: T01; W01

International Patent Class (Main): H04L-012/64; H04M-007/14; H04M-011/08; H04N-007/10; H04Q-011/04

International Patent Class (Additional): H04L-029/06; H04M-003/42; H04M-003/56; H04M-011/00; H04N-007/14

File Segment: EPI

| Set | Items | Description |
|------|---|--|
| S1 | 48 | AU='LUDWIG, L.' OR AU='LUDWIG, L.F.' |
| S2 | 6 | AU='LUDWIG, LESTER F' OR AU='LUDWIG, LESTER F.' OR AU='LUDWIG, LESTER FRANK' |
| S3 | 112 | AU='LUDWIG L' OR AU='LUDWIG L F' |
| S4 | 3 | AU='LUDWIG LESTER FRANK' OR AU='LUDWIG LF' |
| S5 | 16 | AU='LAUWERS, J.' OR AU='LAUWERS, J. CHRIS' OR AU='LAUWERS, J.C.' |
| S6 | 11 | AU='LAUWERS J' |
| S7 | 1 | AU='LAUWERS C' |
| S8 | 30 | AU='LANTZ, K.' OR AU='LANTZ, K. A.' |
| S9 | 3 | AU='LANTZ, KEITH' OR AU='LANTZ, KEITH A' |
| S10 | 15 | AU='LANTZ, KEITH A.' OR AU='LANTZ, KEITH ALLEN' |
| S11 | 21 | AU='LANTZ K' OR AU='LANTZ K A' |
| S12 | 38 | AU='BURNETT, G.' OR AU='BURNETT, G. J.' |
| S13 | 1 | AU='BURNETT, GERALD J.' |
| S14 | 39 | AU='BURNETT G' OR AU='BURNETT G J' |
| S15 | 36 | AU='BURNS, E.' |
| S16 | 2 | AU='BURNS, E.R.' |
| S17 | 135 | AU='BURNS E' |
| S18 | 75 | AU='BURNS E R' |
| S19 | 591 | S1:S18 |
| S20 | 12 | S19 AND (EMAIL OR ELECTRONIC()MAIL OR BEYONDMAIL OR TELECONFERENC? OR VIDEOCONFERENC?) |
| File | 2:INSPEC 1969-2005/Jun W3 | (c) 2005 Institution of Electrical Engineers |
| File | 6:NTIS 1964-2005/Jun W3 | (c) 2005 NTIS, Intl Cpyrght All Rights Res |
| File | 8:Ei Compendex(R) 1970-2005/Jun W3 | (c) 2005 Elsevier Eng. Info. Inc. |
| File | 34:SciSearch(R) Cited Ref Sci 1990-2005/Jun W4 | (c) 2005 Inst for Sci Info |
| File | 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec | (c) 1998 Inst for Sci Info |
| File | 35:Dissertation Abs Online 1861-2005/Jun | (c) 2005 ProQuest Info&Learning |
| File | 65:Inside Conferences 1993-2005/Jun W4 | (c) 2005 BLDSC all rts. reserv. |
| File | 94:JICST-EPlus 1985-2005/May W2 | (c)2005 Japan Science and Tech Corp(JST) |
| File | 99:Wilson Appl. Sci & Tech Abs 1983-2005/May | (c) 2005 The HW Wilson Co. |
| File | 144:Pascal 1973-2005/Jun W3 | (c) 2005 INIST/CNRS |
| File | 636:Gale Group Newsletter DB(TM) 1987-2005/Jun 29 | (c) 2005 The Gale Group |

20/5/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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6422138 INSPEC Abstract Number: B2000-01-7550-030, C2000-01-7140-041

Title: Collaboration in the Information Age: the future of multimedia messaging in healthcare

Author(s): **Ludwig, L.**

Author Affiliation: Loyola Univ. Health Syst., Maywood, IL, USA

Conference Title: Proceedings Pacific Medical Technology Symposium-PACMEDTek. Transcending Time, Distance and Structural Barriers (Cat. No.98EX211) p.285-92

Editor(s): Nelson, R.; Gelish, A.; Mun, S.K.

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 1998 Country of Publication: USA xvi+452 pp.

ISBN: 0 8186 8667 7 Material Identity Number: XX-1999-01867

U.S. Copyright Clearance Center Code: 0 8186 8667 7/98/\$10.00

Conference Title: Proceedings. Pacific Medical Technology Symposium

Conference Sponsor: Tripler Army Medical Center

Conference Date: 17-20 Aug. 1998 Conference Location: Honolulu, HI, USA

Language: English Document Type: Conference Paper (PA)

Treatment: General, Review (G)

Abstract: Today's communication tools have become multidimensional - they encompass both real-time (calls, meetings) and non-real-time (voice mail, e-mail, databases) and include multiple modes of communication, from voice and video to full-text, files and URLs. The once separate techniques for communications are overlapping to help us become more competitive, while streamlining our work and putting us back in control of our time and activities. Telepresence for work and healthcare is changing the behavioral model for collaboration, increasing efficiency and providing greater flexibility, more timely access to information and consistent support. Two large-scale collaborative telehealth projects, the Illinois Rural Telehealth Alliance and the University HealthSystem Consortium desktop **videoconferencing** initiative, are examples of how collaborative technologies are altering business practices and strategic direction and preparing organizations for the challenges of the 21st Century where geographically dispersed collaborators will be able to work together in rich ways. (11 Refs)

Subfile: B C

Descriptors: electronic messaging; groupware; health care; multimedia communication; technological forecasting; **teleconferencing**; telemedicine; teleworking

Identifiers: collaboration; Information Age; future; multimedia messaging; healthcare; multidimensional communication tools; communication modes; competitiveness; streamlining; telepresence; teleworking; behavioral model; efficiency; flexibility; timely information access; consistent support; large-scale collaborative telehealth projects; Illinois Rural Telehealth Alliance; University HealthSystem Consortium; desktop **videoconferencing** initiative; business practices; strategic direction; geographically dispersed collaborators

Class Codes: B7550 (Biomedical communication); B6210R (Multimedia communications); B6210P (Teleconferencing); C7140 (Medical administration); C6130M (Multimedia); C6130G (Groupware)

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20/5/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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04004265 INSPEC Abstract Number: C91073005

Title: Multidimensional audio window management

Author(s): Cohen, M.; Ludwig, L.F.

Author Affiliation: Northwestern Univ., Evanston, IL, USA

Journal: International Journal of Man-Machine Studies vol.34, no.3

p.319-36

Publication Date: March 1991 Country of Publication: UK

CODEN: IJMMBC ISSN: 0020-7373

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Proposes an organization of presentation and control that implements a flexible audio management system the authors call 'audio windows'. The result is a new user interface integrating an enhanced spatial sound presentation system, an audio emphasis system, and a gestural input recognition system. They have implemented these ideas in a modest prototype, also described, designed as an audio server appropriate for a **teleconferencing** system. Their system combines a gestural front end (currently based on a DataGlove, but whose concepts are appropriate for other devices as well) with an enhanced spatial sound system, a digital signal processing separation of multiple sound sources, augmented with 'filters', audio feedback cues that convey added information without distraction or loss of intelligibility. Their prototype employs a manual front end (requiring no keyboard or mouse) driving an auditory back end (requiring no CRT or visual display). (31 Refs)

Subfile: C

Descriptors: audio systems; **teleconferencing** ; user interfaces

Identifiers: audio window management; flexible audio management system; user interface; spatial sound presentation system; gestural input recognition system; audio server; **teleconferencing** system; gestural front end; DataGlove; digital signal processing; audio feedback cues; requiring no CRT or visual display

Class Codes: C6180 (User interfaces); C7100 (Business and administration)

20/5/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

03864070 INSPEC Abstract Number: B91027029, C91031322

Title: Integration of CAD/CAE with multimedia teleconferencing and messaging via broadband networks and shared resource servers

Author(s): **Ludwig, L.F.**

Author Affiliation: Bell Commun. Res., Red Bank, NJ, USA

Conference Title: Systems Integration '90. Proceedings of the First International Conference on Systems Integration (Cat. No.90TH0309-5) p. 136-43

Editor(s): Ng, P.A.; Ramamoorthy, C.V.; Seifert, L.C.; Yeh, R.T.

Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA

Publication Date: 1990 Country of Publication: USA xvi+800 pp.

ISBN: 0 8186 9027 5

U.S. Copyright Clearance Center Code: TH0309-5/90/0000/0136\$01.00

Conference Sponsor: IEEE; New Jersey Inst. Technol.; ACM; AT&T; Bell Commun. Res.; Gesellschaft fur Math. & Datenverarbeitung

Conference Date: 23-26 April 1990 Conference Location: Morristown, NJ, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: It is noted that, if multimedia electronic meeting and messaging systems were tightly integrated with networked CAE/CAD (computer-aided engineering and design) resources, great value could be added to modern design projects. Work in Bellcore's Integrated Media Architecture Laboratory (IMAL) relevant to these and other related capabilities is described. A working premises-based network with shared CAD/CAE systems, conferencing, and messaging servers, encompassing video, graphics, text and audio, has been constructed as part of the Bellcore IMAL project. The example IMAL network can be duplicated with off-the-shelf products and can be extended to link multiple premise locations through the use of commonly available DS-3 codecs and telephone-company-provided DS-3 fibers. (10 Refs)

Subfile: B C

Descriptors: CAD/CAM; computer networks; electronic messaging; multimedia systems; **teleconferencing**

Identifiers: multimedia **teleconferencing** ; broadband networks; shared resource servers; multimedia electronic meeting; networked CAE/CAD; computer-aided engineering and design; modern design projects; working premises-based network; shared CAD/CAE systems; conferencing; messaging servers; video; graphics; text; audio; Bellcore IMAL project; off-the-shelf products; multiple premise locations; DS-3 codecs; telephone-company-provided DS-3 fibers

Class Codes: B6210L (Computer communications); C7400 (Engineering); C6160Z (Other DBMS); C5620 (Computer networks and techniques)

20/5/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

03756152 INSPEC Abstract Number: B90079298, C90072868

Title: Extending the notion of a window system to audio

Author(s): **Ludwig, L.F.** ; Pincever, N.; Cohen, M.

Author Affiliation: Bell Commun. Res., Ottawa, Ont., Canada

Journal: Computer vol.23, no.8 p.66-72

Publication Date: Aug. 1990 Country of Publication: USA

CODEN: CPTRB4 ISSN: 0018-9162

U.S. Copyright Clearance Center Code: 0018-9162/90/0800-0066\$01.00

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: With audio's increasing importance in computer applications, users will soon need presentation, management and organizational capabilities similar to visual window systems to avoid a confusing cacophony of multiple audio sources sounding at once. The ways in which an audio window system could be used are described. These include multimedia documents, spatial data management systems, and **teleconferencing**. The signal processing methods used to create hierarchical and spatial distribution among nearly arbitrary (not pure sine wave) audio sources are discussed. A prototype system, combining hierarchical and spatial processing functions with a computer-controlled switch, software and human input devices, is presented. Two envisioned implementations, a terminal-based system and a network-based server, are described. Preliminary work suggests that an effective audio window system needs much less complexity and fewer levels of digital signal processing precision than the current prototype. (12 Refs)

Subfile: B C

Descriptors: audio signals; audio systems; computer graphics; computerised signal processing; telecommunications computing; **teleconferencing** ; user interfaces

Identifiers: computer applications; organizational capabilities; visual window systems; multiple audio sources; audio window system; multimedia documents; spatial data management systems; **teleconferencing** ; signal processing methods; spatial distribution; prototype system; spatial processing functions; computer-controlled switch; human input devices; terminal-based system; network-based server; digital signal processing precision

Class Codes: B6450 (Audio equipment and systems); C7410F (Communications); C5260 (Digital signal processing); C1250 (Pattern recognition); C6130B (Graphics techniques); C6180 (User interfaces)

20/5/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

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03709209 INSPEC Abstract Number: B90064345, C90058419

Title: Collaboration awareness in support of collaboration transparency: requirements for the next generation of shared window systems

Author(s): **Lauwers, J.C.** ; Lantz, K.A.

Author Affiliation: Olivetti Res. California, Menlo Park, CA, USA

Journal: SIGCHI Bulletin spec. issue. p.303-11

Publication Date: April 1990 Country of Publication: USA

CODEN: SGBUD4 ISSN: 0736-6906

U.S. Copyright Clearance Center Code: 0 89791 345 0/90/0004-0303\$1.50

Conference Title: CHI '90 Conference Proceedings. Empowering People

Conference Date: 1-5 April 1990 Conference Location: Seattle, WA, USA

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Practical (P)

Abstract: Shared window systems enable existing applications to be shared in the context of a real-time **teleconference**. The development and successful use of several such systems, albeit within limited user communities, testifies to the merits of the basic idea. However, experience to date has suggested a number of areas that have not been adequately addressed, namely: spontaneous interactions, shared workspace management, floor control, and annotation and telepointing. This paper focuses on the ramifications, for the software designer, of various user requirements in these areas. While the recommendations that result are motivated by the desire to enable continued use of collaboration-transparent applications, addressing them involves the development of systems software that is distinctly collaboration-aware. (30 Refs)

Subfile: B C

Descriptors: **teleconferencing** ; user interfaces

Identifiers: collaboration transparency; shared window systems; real-time **teleconference** ; spontaneous interactions; shared workspace management; floor control; annotation; telepointing; user requirements

Class Codes: B6210P (Teleconferencing); B6430J (Applications of television systems); C6180 (User interfaces)

20/5/6 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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1245957 NTIS Accession Number: AD-A166 947/2

Towards a Universal Directory Service

(Technical rept)

Lantz, K. A. ; Edighoffer, J. L. ; Hitson, B. L.

Stanford Univ., CA. Dept. of Computer Science.

Corp. Source Codes: 009225004; 094120

Report No.: STAN-CS-85-1086

Aug 85 22p

Languages: English

Journal Announcement: GRAI8617

Also available as Rept. no. CSL-85-286. Presented at Symposium on the Principles of Distributed Computing, ACM (4th) Aug 85.

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NTIS Prices: PC A02/MF A01

Country of Publication: United States

Contract No.: MDA903-80-C-0102; N00039-83-K-0431

Directory services and name servers have been discussed and implemented for a number of distributed systems. Most have been tightly interwoven with the particular distributed systems of which they are a part; a few are more general in nature. In this paper we survey recent work in this area and discuss the advantages and disadvantages of a number of approaches. From this, we are able to extract some fundamental requirements of a naming system capable of handling a wide variety of object types in a heterogeneous environment. We outline how these requirements can be met in a universal directory service. In this paper we address a universal directory service that: can span a heterogeneous internetwork of existing naming domains; allows us to name, locate, and discover how to manipulate objects (including files, processes, mailboxes, people, and services); provides dynamic binding and context mechanisms; and can be integrated into most existing systems as a 'value-added' feature.

Descriptors: *Directories; *Distributed data processing; *Information processing; Classification; Computer files; **Electronic mail**

Identifiers: *Naming systems; *Distributed computer systems; UDS(Universal Directory Service); NTISDODXA

Section Headings: 62B (Computers, Control, and Information Theory--Computer Software); 88E (Library and Information Sciences--Reference Materials)

20/5/8 (Item 1 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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03077865 E.I. Monthly No: EIM9106-025823

Title: Integration of CAD/CAE with multimedia teleconferencing and messaging via broadband networks and shared resource servers.

Author: Ludwig, Lester F.

Corporate Source: Bell Communications Res, Red Bank, NJ, USA

Conference Title: Proceedings of the First International Conference on Systems Integration - ICSI '90

Conference Location: Morristown, NJ, USA Conference Date: 19900423

Sponsor: IEEE Computer Soc; New Jersey Inst of Technology; ACM; AT&T; BellCore; GMD

E.I. Conference No.: 14173

Source: Proc First Int Conf Syst Integr ICSI 90. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA (IEEE cat n 90TH0309-5). p 136-143

Publication Year: 1990

ISBN: 0-8186-9027-5

Language: English

Document Type: PA; (Conference Paper) Treatment: X; (Experimental)

Journal Announcement: 9106

Abstract: It is noted that, if multimedia electronic meeting and messaging systems were tightly integrated with networked CAE/CAD (computer-aided engineering and design) resources, great value could be added to modern design projects. Work in Bellcore's Integrated Media Architecture Laboratory (IMAL) relevant to these and other related capabilities is described. A working premises-based network with shared CAD/CAE systems, conferencing, and messaging servers, encompassing video, graphics, text, and audio, has been constructed as part of the Bellcore IMAL project. The example IMAL network can be duplicated with off-the-shelf products and can be extended to link multiple premise locations through the use of commonly available DS-3 codecs and telephone-company-provided DS-3 fibers. 10 Refs.

Descriptors: *COMPUTER NETWORKS; COMPUTER AIDED ENGINEERING; COMPUTER AIDED DESIGN; **TELECONFERENCING** ; **ELECTRONIC MAIL** ; **DIGITAL** COMMUNICATION SYSTEMS

Identifiers: MULTIMEDIA COMMUNICATION; BROADBAND NETWORKS; IMAL PROJECT

Classification Codes:

723 (Computer Software); 718 (Telephone & Line Communications)

72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATIONS)

20/5/12 (Item 1 from file: 144)
DIALOG(R) File 144:Pascal
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09537618 PASCAL No.: 91-0328037

Multidimensional audio window management

COHEN M; LUDWIG L F

Northwestern univ., computer music, Evanston IL 60208, USA

Journal: International journal of man-machine studies, 1991, 34 (3)

319-336

ISSN: 0020-7373 CODEN: IJMMBC Availability: INIST-14299;

354000017430620010/NUM

No. of Refs.: 1 p.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: United Kingdom

Language: English

This paper proposes an organization of presentation and control that implements a flexible audio management system we call audio windows. The result is a new user interface integrating an enhanced spatial sound presentation system, and audio emphasis system, and a gestural input recognition system. We have implemented these ideas in a modest prototype, also described, designed as an audio server appropriate for a **teleconferencing** system

English Descriptors: **Teleconference** ; System design; Audioconference;
Audio windowing

French Descriptors: **Teleconference** ; Conception systeme; Audioconference;
Fenetrage audio

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--------------------|------------------|---------|------------------|
| L1 | 8732 | ludwig.in. | US-PGPUB; USPAT | OR | OFF | 2006/03/15 12:28 |
| L2 | 82 | ludwig.in. and lester.in. | US-PGPUB; USPAT | OR | OFF | 2006/03/15 12:58 |
| L3 | 34 | ludwig.in. and lester.in. | USPAT | OR | OFF | 2006/03/15 12:29 |
| L4 | 21 | rolodex and 3 | USPAT | OR | OFF | 2006/03/15 12:30 |
| L5 | 21 | "hot key" and 4 | USPAT | OR | OFF | 2006/03/15 12:45 |
| L8 | 933 | 715/751-758.ccls. | US-PGPUB; USPAT | OR | OFF | 2006/03/15 12:49 |
| L9 | 7806 | ((quick or personal) near5 (list or directory or table)) | US-PGPUB; USPAT | OR | ON | 2006/03/15 12:49 |
| L10 | 21 | 9 and 8 | USPAT | OR | OFF | 2006/03/15 12:54 |
| L13 | 6045 | 709/204-207.ccls. | US-PGPUB; USPAT | OR | OFF | 2006/03/15 12:56 |
| L14 | 318 | 13 and 9 | US-PGPUB; USPAT | OR | OFF | 2006/03/15 12:57 |
| L17 | 30 | rolodex and 14 | US-PGPUB; USPAT | OR | OFF | 2006/03/15 12:58 |
| L18 | 182 | video and 14 | US-PGPUB; USPAT | OR | OFF | 2006/03/15 12:59 |
| L19 | 218 | icon same 9 | US-PGPUB; USPAT | OR | ON | 2006/03/15 12:59 |
| L20 | 43 | 18 and 19 | US-PGPUB; USPAT | OR | ON | 2006/03/15 12:59 |